RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _08/922,240A_

Source: _1FW16_

Date Processed by STIC: _1/21/05_

ENTERED

IFW16

RAW SEQUENCE LISTING   DATE: 01/21/2005
PATENT APPLICATION: US/08/922,240A   TIME: 15:58:53

Input Set : A:\APBI-P01-007.TXT
Output Set: N:\CRF4\01212005\H922240A.raw

```
      4 <110> APPLICANT: Schreiber, Stuart L.
      5         Belshaw, Peter
      6         Crabtree, Gerald R.
      8 <120> TITLE OF INVENTION: GENE THERAPY BY CELL SPECIFIC TARGETING
     11 <130> FILE REFERENCE: APBI-P01-007
     13 <140> CURRENT APPLICATION NUMBER: US 08/922,240A
     14 <141> CURRENT FILING DATE: 1997-08-27
     16 <150> PRIOR APPLICATION NUMBER: US 60/024,666
     17 <151> PRIOR FILING DATE: 1996-08-27
     19 <160> NUMBER OF SEQ ID NOS: 3
     21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
     23 <210> SEQ ID NO: 1
     24 <211> LENGTH: 10
     25 <212> TYPE: PRT
     26 <213> ORGANISM: Unknown
     28 <220> FEATURE:
     29 <223> OTHER INFORMATION: synthetic modified cyclosporin A peptide
W--> 31 <221> NAME/KEY: VARIANT
     32 <222> LOCATION: 1
     33 <223> OTHER INFORMATION: Xaa = Abu: alpha-aminobutyric acid
W--> 35 <221> VARIANT
     36 <222> LOCATION: 2
     37 <223> OTHER INFORMATION: Xaa = Sar: sarcosine
W--> 39 <221> VARIANT
     40 <222> LOCATION: 3, 5, 8, 9
     41 <223> OTHER INFORMATION: Xaa = MeLeu: N-methylleucine
W--> 43 <221> VARIANT
     44 <222> LOCATION: 7
     45 <223> OTHER INFORMATION: Xaa = D-Ala: D-alanine
W--> 47 <221> VARIANT
     48 <222> LOCATION: 10
     49 <223> OTHER INFORMATION: Xaa = Ac-N-MeValinol ester
W--> 51 <400> 1
W--> 52 Xaa Xaa Xaa Val Xaa Ala Xaa Xaa Xaa Xaa
     53 1               5               10
     56 <210> SEQ ID NO: 2
     57 <211> LENGTH: 12
     58 <212> TYPE: PRT
     59 <213> ORGANISM: Unknown
     61 <220> FEATURE:
     62 <223> OTHER INFORMATION: synthetic modified cyclosporin A peptide
W--> 64 <221> NAME/KEY: VARIANT
     65 <222> LOCATION: 1
```

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        66 <223> OTHER INFORMATION: Xaa = Fmoc-CpSar:
        67        9-fluorenylmethoxycarbonyl-cyclopentyl sarcosine
W--> 69 <221> VARIANT
        70 <222> LOCATION: 2
        71 <223> OTHER INFORMATION: Xaa = MeBmt:
        72        (4R)-N-methyl-4-butenyl-4-methyl-L-threonine
W--> 74 <221> VARIANT
        75 <222> LOCATION: 3
        76 <223> OTHER INFORMATION: Xaa = Abu: alpha-aminobutyric acid
W--> 78 <221> VARIANT
        79 <222> LOCATION: 4
        80 <223> OTHER INFORMATION: Xaa = Sar: sarcosine
W--> 82 <221> VARIANT
        83 <222> LOCATION: 5, 7, 10, 11
        84 <223> OTHER INFORMATION: Xaa = MeLeu: N-methylleucine
W--> 86 <221> VARIANT
        87 <222> LOCATION: (9)...(9)
        88 <223> OTHER INFORMATION: Xaa = D-Ala: D-alanine
W--> 90 <221> VARIANT
        91 <222> LOCATION: (12)...(12)
        92 <223> OTHER INFORMATION: Xaa = Valinol ester
W--> 94 <400> 2
W--> 95 Xaa Xaa Xaa Xaa Xaa Val Xaa Ala Xaa Xaa Xaa Xaa
        96 1                 5                 10
        99 <210> SEQ ID NO: 3
       100 <211> LENGTH: 11
       101 <212> TYPE: PRT
       102 <213> ORGANISM: Unknown
       104 <220> FEATURE:
       105 <223> OTHER INFORMATION: synthetic modified cyclosporin A peptide
W--> 107 <221> NAME/KEY: VARIANT
       108 <222> LOCATION: 1
       109 <223> OTHER INFORMATION: Xaa = Me-CpSar: methyl-cyclopentyl sarcosine
W--> 111 <221> VARIANT
       112 <222> LOCATION: 2
       113 <223> OTHER INFORMATION: Xaa = MeBmt:
       114        (4R)-N-methyl-4-butenyl-4-methyl-L-threonine
W--> 116 <221> VARIANT
       117 <222> LOCATION: 3
       118 <223> OTHER INFORMATION: Xaa = Abu: alpha-aminobutyric acid
W--> 120 <221> VARIANT
       121 <222> LOCATION: 4
       122 <223> OTHER INFORMATION: Xaa = Sar: sarcosine
W--> 124 <221> VARIANT
       125 <222> LOCATION: 5, 7, 10
       126 <223> OTHER INFORMATION: Xaa = MeLeu: N-methylleucine
W--> 128 <221> VARIANT
       129 <222> LOCATION: (9)...(9)
       130 <223> OTHER INFORMATION: Xaa = D-alanine
```

RAW SEQUENCE LISTING   DATE: 01/21/2005
PATENT APPLICATION: US/08/922,240A   TIME: 15:58:53

Input Set : A:\APBI-P01-007.TXT
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```
W--> 132 <221> VARIANT
    133 <222> LOCATION: (11)...(11)
    134 <223> OTHER INFORMATION: Xaa = MeLeu-(OH): hydroxyl-N-methylleucine
W--> 136 <400> 3
W--> 137 Xaa Xaa Xaa Xaa Xaa Val Xaa Ala Xaa Xaa Xaa
    138  1               5                 10
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/21/2005
PATENT APPLICATION: US/08/922,240A   TIME: 15:58:54

Input Set : **A:\APBI-P01-007.TXT**
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<u>**Please Note:**</u>
**Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.**

Seq#:1; Xaa Pos. 1,2,3,5,7,8,9,10
Seq#:2; Xaa Pos. 1,2,3,4,5,7,8,10,11,12
Seq#:3; Xaa Pos. 1,2,3,4,5,7,9,10,11

VERIFICATION SUMMARY   DATE: 01/21/2005
PATENT APPLICATION: **US/08/922,240A**   TIME: 15:58:54

Input Set : **A:\APBI-P01-007.TXT**
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```
L:31 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:35 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:39 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:43 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:47 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:51 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:64 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:69 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:74 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:78 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:82 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:86 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:90 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:94 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:107 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:111 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:116 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:120 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:124 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:128 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:132 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:136 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
```